

INTERNATIONAL SEARCH REPORT

ional Application No

GB2004/002763

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B43/10 E21B29/10 E21B41/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/185274 A1 (SIMPSON NEIL A A ET AL) 12 December 2002 (2002-12-12)	1-6, 8-13,17, 18, 21-23, 26,30
Y	paragraphs '0006!, '0007!, '0009! - '0012!, '0025! - '0028!, '0030! - '0034!; claim 7 figures 1-9	14-16, 19,20, 24,25
A	US 4 624 306 A (PALMER C DALE ET AL) 25 November 1986 (1986-11-25) abstract	7



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

16 November 2004

Date of mailing of the international search report

23.11.2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/050360 A1 (STEWART R BRUCE ET AL) 2 May 2002 (2002-05-02)	28,29
Y	figures 3,6,9c,10c-10f	19,20,25
A	US 2002/092648 A1 (HACKWORTH MATTHEW R ET AL) 18 July 2002 (2002-07-18) abstract	23
X	WO 01/04535 A (STEWART R BRUCE ; COOK ROBERT LANCE (US); ENVENTURE GLOBAL TECHNOLOGY) 18 January 2001 (2001-01-18)	28
A	figures 10d-10g	19,20,25
Y	WO 01/33037 A (STEWART R BRUCE ; COOK ROBERT LANCE (US); COWAN KENNETH MICHAEL (US);) 10 May 2001 (2001-05-10) figures 3,4	19,20,25
X	WO 00/77431 A (FRIEDMAN MARK M ; STEWART R BRUCE (NL); SHELL INT RESEARCH (NL); BRISC) 21 December 2000 (2000-12-21) figures 9c,10,11,14,27-30	28
P,A	US 2003/188868 A1 (TRAHAN KEVIN O ET AL) 9 October 2003 (2003-10-09) figures 16,17	28
X	WO 99/13195 A (NOBILEAU PHILIPPE) 18 March 1999 (1999-03-18) page 4, lines 33-38; figures 1-19	27
Y	page 7, lines 28-35; figure 20	14-16,24
X	WO 01/18353 A (E2 TECH LTD ; INNES GARETH (GB); OOSTERLING PETER (NL)) 15 March 2001 (2001-03-15) page 16, lines 7-20; figures 1-3	27
A	page 17, line 23 - page 18, line 2 page 18, line 30 - page 19, line 3 page 21, line 28 - page 22, line 1	14-16,24
X	US 6 142 230 A (WRIGHT RALPH DAVID ET AL) 7 November 2000 (2000-11-07) column 1, lines 17-25; figures 4,5,7,10 column 17, line 66 - column 18, line 34 column 22, line 13 - column 23, line 18	27
X	WO 02/35058 A (METCALFE PAUL DAVID ; HARRALL SIMON JOHN (GB); TILTON FREDERICK T (US)) 2 May 2002 (2002-05-02)	27
A	page 6, column 24 - page 11, column 18; figures 1-5	14-16,24

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/144822 A1 (HACKWORTH MATTHEW R ET AL) 10 October 2002 (2002-10-10)	27
A	paragraphs '0043!, '0058!, '0059!, '0062!; figures 4,11-13 -----	14-16,24
A	US 3 203 451 A (VINCENT RENIC P) 31 August 1965 (1965-08-31) cited in the application column 10, lines 15-20; figures 1,2,7 -----	14-16,27
P,A	GB 2 388 858 A (SCHLUMBERGER HOLDINGS) 26 November 2003 (2003-11-26) the whole document -----	27

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national application No.
PCT/GB2004/002763

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13,17,18,21-23,26,30

Expanding a tubular patch

2. claims: 14-16,24,27

Deformed patch

3. claims: 19,20,25,28,29

Patch with section of increased wall thickness

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